

Amergent Techs, LLC

Putting People on Target



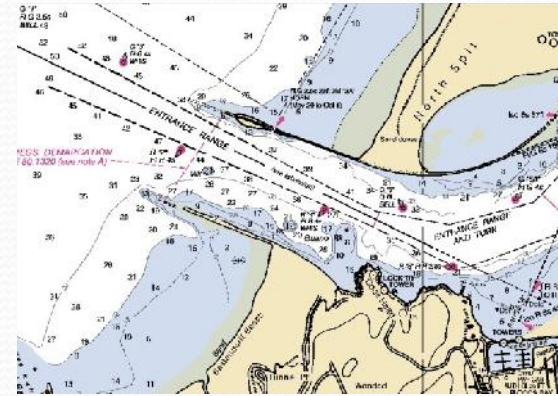
Services

- Project management
- Focused on safety, security and environmental services
- Emergency response
- Regulatory Compliance and Training
- Special projects
- Assist clients finding solutions for their problems



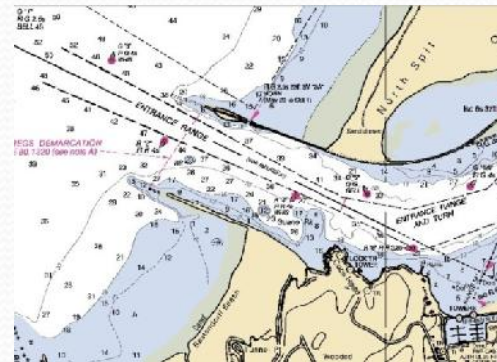
Navigation and Waterway Services

- Feasibility Assessments
- Vessel Traffic Systems
- Simulator modeling
- Waterway Safety Analysis
- Channels, Rivers, Bays & Coastal
- Breaking Bar Studies
- Water depth and breadth
- Channel configuration
- Harbor Aids to Navigation
- US Coast Guard WAMS Studies



Port and Waterway Projects

- Conducted the waterway safety/security assessments for seven LNG projects in the US
- Managed the safety/security planning and installation of two new marine terminals in Hawaii
- Organized federal, state and local agencies (over 20 agencies) in emergency response to an LNG accident
- Conduct waterway assessment for LNG movement in Alaska, Canada, and US
- Managed safety/security planning for very large oil terminal on the west coast of the US



M/V Santa Clara Chemical Release



January 3, 1992
Arsenic Trioxide-at sea

Magnesium phosphide-
on deck and dock

- Tied up berth for weeks
- Significant chemical cleanup
- Negative public response
- Intentional release of hazardous material

M/V Santa Clara Main Deck



M/V Santa Clara Container



Fairfax, Virginia



Mantua
Neighborhood
Fairfax, VA
1992

Years of Oil into Water Table



- Explosive levels found in basements
- Dug trenches in backyards
- Installed wells to remove oil
- 5 years recovered over 36,000 gals of oil from wells



LNG Terminals



Comments also ask that the possible negative effects of hydraulic “fracking” be evaluated, stating that a pipeline would likely increase the practice of drilling deep beneath the ground for natural gas.

“To put it another way, the explosive force on one LNG tanker is equal, roughly, to 55 Hiroshima bombs!”



Mega Borg, Galveston, Texas



8 June 1990

- GOM Lightering
- 100,000 bbls of oil on board
- Dispersant used

Mega Borg burns for 7 days



4.2 million gallon spill
60 miles offshore
Planned for the worst

Advanced Planning

- Planned for vessel sinking
- Planned for grounding the vessel to avoid sinking
- Boomed the Texas/Louisiana coast
- Prepared dispersant application & approval
- Used bio remediation testing
- Removed debris from beaches in advance with volunteers

Risk Management Planning



New rules keep large outgoing ships away from Bay Bridge during fog



Who is Responding?

Governor complains about oil spill
spotlight on Louisiana

Many people in San Francisco took one
look at the oily mess and said, "Hey,
that's more than 140 gallons!"

Senators complain White House
blocking hurricane health care
aid

Mayor criticized the Coast Guard for
its response, as its initial reported
figures, between 100 to 400 gal of oil,
were significantly lower than those of
the actual spill.

Administration officials wrote that
COSCO's use of a terminal
to be built on former Naval property
would not adversely affect national
security.
Some in Congress raised national
security concerns about this proposed
lease.

Management Focus & Participation

- Personality dependent
- Politics
- Knowledge of subject
- Use of the media
- Familiarity with Emergency and Crisis Management

Lessons Learned

- Advanced Planning
 - Be aggressive
 - Be fast and get on top of it early. Don't let it “ramp up”
 - Mobilize key personnel and get additional expert help
 - Port risk assessment needs to be carefully reviewed
 - Practice and document how we actually respond
 - Participate in drills and exercises at the right levels
 - Be prepared with Fact Sheets and don't let others search for information

Thank You

Any Questions?

